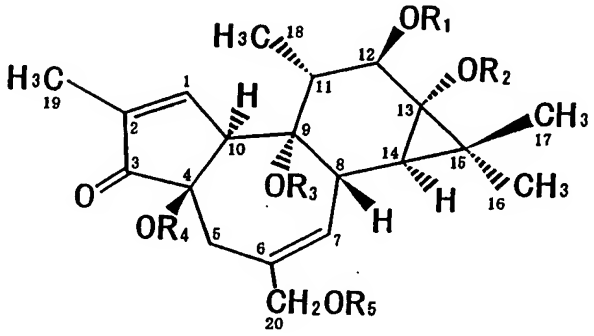
ABSTRACT

An antiviral preparation comprising as an active ingredient, a phorbol derivative of formula 1:



1

wherein R_1 is $-(CH_2)_aX(CH_2)_bCH_3$, $-(CH_2)_cX(CH_2)_dYCH_3$, $-CO(CH_2)_eCH_3$ or $-(CH_2)_fCH_3$ R_2 is $-CO(CH_2)_nCH_3$, R_3, R_4 and R_5 are hydrogen atom, or an aliphatic or aromatic carboxylic acid residue, X and Y are O or S, and each of a-f and n is a number, and having a specific safety index S.I. = CC_{50}/EC_{50} of 10 or more wherein EC_{50} means a concentration at which HIV-1 induced cytopathogenic effect (CPE) in MT-4 cell is inhibited by 50%, and CC_{50} means a concentration at which survival of MT-4 cell in a cell proliferation test is reduced by 50%. These preparations are particularly effective for human immuno-deficiency virus (HIV).